

NAME _____

EGR 2261 Lab 7

User-Defined Functions (Continued)

OBJECTIVES

- Write and test C++ programs that contain user-defined functions, including functions whose parameters are passed by reference.

Procedure

Use Visual Studio to write, run, and test the C++ programs listed below. **Both of these programs require a function to “return” more than one value. Since a C++ function cannot really do that, you’ll have to pass parameters by reference to achieve the desired behavior.**

1. If you have the 7th edition, do Chapter 6’s Programming Exercise 13.
If you have the 8th edition, do Chapter 6’s Programming Exercise 15.
Name your project **Lab07WindChill**, and name your source-code file **Lab07WindChill.cpp**. When the directions say that your program must contain at least two functions, it really means at least two functions *in addition to* the `main` function. One of these additional functions gets the user’s input values, and the other one calculates the windchill. The `main` function should call these other two functions. Show me your working program.

2. If you have the 7th edition, do Chapter 6’s Programming Exercise 19.
If you have the 8th edition, do Chapter 6’s Programming Exercise 21.
Use the name **Lab07DayOfYear**. Your program must contain, in addition to the `main` function, three other functions that are called by `main`:
 - A function named `getInput` that prompts the user for the month, day, and year, and then “returns” those values to `main`.
 - A function named `leapYear` that checks to see whether a year is a leap year. This function should have a single `int` parameter and return a `bool`.
 - A function named `dayOfYear` that computes and returns how many days into the year we are. This function should have as its parameters a month (`int`), a day (`int`), and whether or not we’re in a leap year (`bool`).Show me your working program.

***** This lab had 2 named programs for me to check. If you didn’t finish both of these during class, finish them after class. Then upload your source-code files for both programs (including the ones that I checked in class) to the Lab 7 dropbox on the course website by the due date. Also turn in your lab sheet at the beginning of class.*****